

Date Searched: 4/11/2005

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 ((716/1-18.ccls. or 326/38-45,47,63-81,101-103.ccls. or 710/10.ccls. or 713/1-100.ccls.  
) and (program\$5 or configur\$6 or reprogram\$5 or re-program\$5 or reconfigur\$6 or re-configurat\$6 or  
initial\$8 or reinitial\$8 or re-initial\$8) and ((input\$3 or output\$3 or communicat\$4 or transfer\$4 or "i/o"  
or "i/os" or (input adj output) or multiplex\$3 or mux or buffer\$3) same (convers\$4 or convert\$3 or shift\$3  
or scrambl\$3 or encrypt\$4 or decrypt\$4 or encod\$3 or decod\$3)  
) and (clock same (phase adj shift\$3)) and @pd>"20041101"

Results: 5 hits

L2 (scrambl\$3 or encrypt\$4 or decrypt\$4 or encod\$3 or decod\$3) same polynomial

L3 1 and 2

Results: 0 hit

L4 716/1-18.ccls. or 326/38-45,47,63-81,101-103.ccls. or 710/10.ccls. or 713/1-100.ccls.

L5 program\$5 or configur\$6 or reprogram\$5 or re-program\$5 or reconfigur\$6 or re-configurat\$6 or  
initial\$8 or reinitial\$8 or re-initial\$8

L6 (programmable adj2 (device or array)) or pld or pga or fpga or cpld

L7 (input\$3 or output\$3 or communicat\$4 or transfer\$4 or "i/o" or "i/os" or (input adj output) or  
multiplex\$3 or mux or buffer\$3) same serial\$2 same (scrambl\$3 or encod\$3 or encrypt\$4)

L8 4 and 5 and 6 and 7 and @pd>"20041101"

Results: 5 hits

L9 6260087.uref.

Results: 9 hits

L10 5,687,325.uref.

Results: 38 hits

L11 serial same polynomial same (scrambl\$3 or encrypt\$4 or encod\$3) same bit same length

Results: 20 hits

L12 (programmable near3 (array or device)) or pld or fpga or cpld

L13 embed\$3 same 12 same (non-programmable or nonprogrammable or non-configurable or  
nonconfigurable or fix\$3)

L14 (input\$3 or output\$3 or communicat\$4 or transfer\$4 or "i/o" or "i/os" or (input adj output) or  
multiplex\$3 or mux\$3 or buffer\$3) same (convers\$4 or convert\$3 or shift\$3 or scrambl\$3 or encrypt\$4 or  
decrypt\$4 or encod\$3 or decod\$3)

L15 13 and 14

Results: 80 hits

L16 (event adj tim\$3) same ((phase near3 shift\$3) or delay\$3) same (clock or clk or ck)

Results: 115 hits

|               |                  |         |
|---------------|------------------|---------|
| US 6260087 B1 | USPAT Chang; Web | 710/100 |
| US 5687325 A  | USPAT Chang; Web | 710/104 |

|               |  |         |
|---------------|--|---------|
| US 6839889 B2 | USPAT Liu; Ming-Kang                       | 716/18  |
| US 6810434 B2 | USPAT Muthujumaraswathy; Kumaraguru et al. | 710/5   |
| US 6578104 B1 | USPAT Small; Brian D. et al.               | 711/104 |
| US 6552410 B1 | USPAT Eaton; David D. et al.               | 257/530 |
| US 6314551 B1 | USPAT Borland; David J.                    | 716/17  |
| US 6147890 A  | USPAT Kawana; Keiichi et al.               | 365/49  |
| US 6094065 A  | USPAT Tavana; Danesh et al.                | 326/39  |
| US 5959466 A  | USPAT McGowan; John E.                     | 326/39  |
| US 6803785 B1 | USPAT May; Roger et al.                    | 326/39  |

|               |                                |        |
|---------------|--------------------------------|--------|
| US 6864710 B1 | USPAT Lacey; Timothy M. et al. | 326/39 |
|---------------|--------------------------------|--------|

US 20050071800 A1                      US-PGPUB              Liu, Ming-Kang    716/18

(serial communication w/ polynomial scrambling)

US 20010056561 A1                      US-PGPUB              Rub, Bernardo    714/746

US 5875200 A                      USPAT    Glover; Neal et al.              714/784

US 4870346 A                      USPAT    Mydill; Marc R. et al.              324/73.1

US 6724829 B1                      USPAT    Tzukerman; Shimon et al.              375/295

US 6628725 B1                      USPAT    Adam; Joel Fredric et al.              375/259

US 6539051 B1                      USPAT    Grivna; Edward L.              375/219

US 6426649 B1                      USPAT    Fu; Robert et al.              326/41

US 6052773 A                      USPAT    DeHon; Andre et al.              712/43

US 6049487 A                      USPAT    Plants; William C. et al.              365/189.04

US 20050069224 A1                      US-PGPUB              Nowicki, Tomasz J. et al.              382/298

(configuration data stored during manufacturing)

US 6148384 A                      USPAT    Devanagundy; Uday N. et al.              711/163

(phase shift clocks for timing circuits)

US 5488646 A                      USPAT    Jones; Anthony M. et al.              377/47

US 3851258 A                      USPAT    Freedman; David Daniel              327/115

US 6803785 B1                      USPAT    May; Roger et al.              326/39

US 6791353 B1                      USPAT    Beal; Samuel W. et al.              326/39

US 5825202 A                      USPAT    Tavana; Danesh et al.              326/39

US 6590419 B1                      USPAT    Betz; Vaughn et al.              326/47

US 6236229 B1                      USPAT    Or-Bach; Zvi              326/39

Date Searched: 11/1/2004

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1        716/1-18.ccls. or 326/38-45,47,63-81,101-103.ccls. or 710/10.ccls. or 713/1-100.ccls.

L2        (program\$5 or configur\$6 or reprogram\$5 or re-program\$5 or reconfigur\$6 or re-configurat\$6 or initial\$8 or reinitial\$8 or re-initial\$8)

L3        (input\$3 or output\$3 or communicat\$4 or transfer\$4 or "i/o" or "i/os" or (input adj output) or multiplex\$3 or mux or buffer\$3) same (convers\$4 or convert\$3 or shift\$3 or scrambl\$3 or encrypt\$4 or decrypt\$4 or encod\$3 or decod\$3)

L4        1 and 2 and 3

Results: 6373 hits

L5        clock same (phase adj shift\$3)

L6        4 and 5

Results: 85 hits

L7        (scrambl\$3 or encrypt\$4 or decrypt\$4 or encod\$3 or decod\$3) same polynomial

L8        6 and 7

Results: 0 hits

L9        4 and 7

Results: 10 hits

L10       (program\$5 adj3 (device or array)) or pga or fpga or pld or cpld

L11       4 and 10

Results: 2608 hits

L12       (multiplex\$3 or mux) and (convers\$4 or convert\$3 or shift\$3) and (scrambl\$3 or encrypt\$4 or decrypt\$4 or encod\$3 or decod\$3) and (clock same (shift\$3 or delay or retim\$3 or re-tim\$3)) and 11

Results: 441 hits

L13       12 and 7

Results: 2 hits

L15 (programmable adj2 (device or array)) or pld or pga or fpga or cpld

L16 (input\$3 or output\$3 or communicat\$4 or transfer\$4 or "i/o" or "i/os" or (input adj output) or multiplex\$3 or mux or buffer\$3) same serial\$2 same (scrambl\$3 or encod\$3 or encrypt\$4)

L17 16 same polynomial

L18 1 and 2 and 15 and 17

Results: 0 hit

L19 1 and 2 and 15 and 16

Results: 44 hits

|                   |                                   |         |
|-------------------|-----------------------------------|---------|
| US 6181164 B1     | USPAT Miller, Andrew J.           | 326/46  |
| US 6609167 B1     | USPAT Bastiani, Vincent J. et al. | 710/104 |
| US 20030014620 A1 | US-PGPUB Hanjani, Hassan          | 713/1   |
| US 20010033188 A1 | US-PGPUB Aung, Edward et al.      | 327/141 |
| US 6763506 B1     | USPAT Betz, Vaughn Timothy et al. | 716/6   |
| US 6525562 B1     | USPAT Schultz, David P. et al.    | 326/39  |
| US 6487648 B1     | USPAT Hassoun, Joseph H.          | 711/167 |
| US 6462577 B1     | USPAT Lee, Andy L. et al.         | 326/40  |
| US 6442739 B1     | USPAT Palermo, Robert J. et al.   | 716/6   |
| US 6437713 B1     | USPAT Lesea, Austin H.            | 341/78  |
| US 6373278 B1     | USPAT Sung, Chiakang et al.       | 326/38  |
| US 6292923 B1     | USPAT Genrich, Thad J. et al.     | 714/795 |
| US RE37048 E      | USPAT McCollum, John L.           | 708/230 |
| US 6107826 A      | USPAT Young, Steven P. et al.     | 326/41  |
| US 6060902 A      | USPAT Albu, Lucian R. et al.      | 326/38  |
| US 20030208723 A1 | US-PGPUB Killian, Earl A. et al.  | 716/1   |
| US 6525678 B1     | USPAT Veenstra; Kerry S. et al.   | 341/55  |
| US 6317804 B1     | USPAT Levy; Paul S. et al.        | 710/305 |
| US 6260087 B1     | USPAT Chang; Web                  | 710/100 |
| US 6212639 B1     | USPAT Erickson; Charles R. et al. | 713/200 |
| US 6008666 A      | USPAT Conn; Robert O.             | 326/39  |
| US 5892961 A      | USPAT Trimmerger; Stephen M.      | 712/10  |
| US 5745734 A      | USPAT Craft; David John et al.    | 716/16  |
| US 6732068 B2     | USPAT Sample; Stephen P. et al.   | 703/24  |

Databases Searched: EPO, JPO, IBM TDB, Derwent

Plurals: ON

Terms Searched:

L1 (program\$5 or configur\$6 or reprogram\$5 or re-program\$5 or reconfigur\$6 or re-configurat\$6 or initial\$8 or reinitial\$8 or re-initial\$8)

L2 (input\$3 or output\$3 or communicat\$4 or transfer\$4 or "i/o" or "i/os" or (input adj output) or multiplex\$3 or mux or buffer\$3) same (convert\$4 or convert\$3 or shift\$3 or scrambl\$3 or encrypt\$4 or decrypt\$4 or encod\$3 or decod\$3)

L3 clock near10 (phase adj shift\$3)

L4 (scrambl\$3 or encrypt\$4 or decrypt\$4 or encod\$3 or decod\$3) same polynomial

L5 (program\$5 adj3 (device or array)) or pga or fpga or pld or cpld

L6 1 and 2 and 3

Results: 125 hits

L7 1 and 2 and 4

Results: 127 hits

L8 7 and 5

Results: 2 hits

L9 5 and 6

Results: 8 hits

US 6154869 A

DERWENT

WOLF, T D

US 6326812 B

DERWENT

JEFFERSON, D

Database Searched: IEEE/IEEE Xplore

Terms Searched: (program\* or configur\* or reprogram\* or re-program\* or reconfigur\* or re-configurat\* or initial\* or reinitial\* or re-initial\*) and

(input\* or output\* or communicat\* or transfer\* or "i/o" or "i/os" or (input <near/1> output) or multiplex\* or mux or buffer\*) and (convers\* or convert\* or shift\* or scrambl\* or encrypt\* or decrypt\* or encod\* or decod\*) and

((program\* <near/3> (device or array)) or pga or fpga or pld or cpld) and polynomial

Results: Your search matched **7** of **1085387** documents

Terms Searched: (program\* or configur\* or reprogram\* or re-program\* or reconfigur\* or re-configurat\* or initial\* or reinitial\* or re-initial\*) and

(input\* or output\* or communicat\* or transfer\* or "i/o" or "i/os" or (input <near/1> output) or multiplex\* or mux or buffer\*) and (convers\* or convert\* or shift\* or scrambl\* or encrypt\* or decrypt\* or encod\* or decod\*) and

((program\* <near/3> (device or array)) or pga or fpga or pld or cpld)

Results: Your search matched **497** of **1085387** documents

Terms Searched: (program\* or configur\* or reprogram\* or re-program\* or reconfigur\* or re-configurat\* or initial\* or reinitial\* or re-initial\*) and

(input\* or output\* or communicat\* or transfer\* or "i/o" or "i/os" or (input <near/1> output) or multiplex\* or mux or buffer\*) and (convers\* or convert\* or shift\* or scrambl\* or encrypt\* or decrypt\* or encod\* or decod\*) and

((program\* <near/3> (device or array)) or pga or fpga or pld or cpld)

and (multiplex\* or mux) and (convers\* or convert\* or shift\*) and (scrambl\* or encrypt\* or decrypt\* or encod\* or decod\*) and (clock and (shift\* or delay or retim\* or re-tim\*))

Results: Your search matched **0** of **1085387** documents

Terms Searched: (program\* or configur\* or reprogram\* or re program\* or reconfigur\* or re configurat\* or initial\* or reinitial\* or re initial\*) and(input\* or output\* or communicat\* or transfer\* or 'i/o' or 'i/os' or (input <near/1> output) or multiplex\* or mux or buffer\*) and (convers\* or convert\* or shift\* or scrambl\* or encrypt\* or decrypt\* or encod\* or decod\*) and ((program\* <near/3> (device or array)) or pga or fpga or pld or cpld) and (multiplex\* or mux) and (convers\* or convert\* or shift\*) and (scrambl\* or encrypt\* or decrypt\* or encod\* or decod\*) and clock

Results: Your search matched **1** of **1085387** documents